ENGINEERING/INDUSTRIAL TECHNOLOGY

CAREER INFORMATION

Programs in Engineering Technology consist of integrated curricula designed to prepare graduates for technical careers in industry. They emphasize the application of engineering knowledge and methods to the solutions of modern problems. Engineering Technology is that part of the technological field which requires the application of scientific and engineering knowledge and methods combined with technical skills in support of engineering activities. It lies in the occupation spectrum between craftsman and the engineer at the end of the spectrum closest to the engineer. Engineering technologists are a member of the engineering team, consisting of engineers, engineering technologist and engineering technicians. The engineering technologist is applications-oriented, building upon a background of applied mathematics, including the concepts and applications of calculus. Utilizing applied science and technology, technologist may work with engineers in utilizing applied design techniques to produce practical, workable and safe results quickly and economically; configure hardware from proven concepts; install, operate, or manage complex technical systems, and/or provide customer engineering support.

GENERAL INFORMATION

Not all universities with this major are listed below. The lower division core preparation is listed for universities with which LBCC has established articulation agreements. The first course listed is the LBCC course; the course in parentheses immediately after is the university equivalent. It is generally recommended to take as many lower-division major courses as possible prior to transfer. Please check www.assist.org for the most current articulation information and information regarding minimum grade for each course, impacted major recommendations, application procedures, etc. Moreover, you must see a counselor to develop an accurate educational plan to ensure your competitiveness for admissions for your school(s) of choice. To thoroughly understand admissions and general education requirements please check the catalog of the transfer university. CSU/UC admissions and general education requirements are outlined on a separate curriculum guide.

** Schools are listed in alphabetical order **

CAL POLY POMONA

- **B.S. – Engineering Technology Construction**
  CBIS 6 (ETT 101 & 101L or CIS 101 or AG 128 & 128L or HRT 108 & 108L) or 40 (ETT 101 & 101L), 11 (ETT 215 & 215L or ECE 114 & 164L or CS 128); Draft 51A (MFE 126 & 126L); Chem 1A (Chem 121 & 121L & 122L); Phys 2A & 2B (Phy 121 & 121L & 122 & 122L & 123 & 123L)

- **B.S. – Engineering Technology Electronics and Computer**
  CBIS 6 (ETT 101 & 101L or CIS 101 or AG 128 & 128L or HRT 108 & 108L) or 40 (ETT 101 & 101L), 11 (ETT 215 & 215L or ECE 114 & 164L or CS 128); Draft 51A (MFE 126 & 126L); Chem 1A (Chem 121 & 121L & 122L); Phys 2A & 2B (Phy 121 & 121L & 122 & 122L & 123 & 123L); ELTC 51 or 51A or 51B (ETE 102), 51L or 51LA or 51LB (102L), 52 or 52A (103) and 52L (103L) or 52B (103 or 203) & 52LB (103L or 203L), 53 or 53A or 53B (203), 53L or 53LA or 53LB (203L), 54 or 54A or 54B (230), 54L or 54LA or 54LB (230L); Engr 17 & 17L (ETE 210 & 210L)

SEE REVERSE SIDE FOR ADDITIONAL REQUIREMENTS

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Cal Poly Pomona (continued)

- **B.S. – Engineering Technology**
  **Emphases:** Environmental; Manufacturing; Mechanical

  **Emphases Requirements:**
  Environmental:
  CBIS 6 (ETT 101 & 101L or CIS 101 or AG 128 & 128L or HRT 108 & 108L) or 40 (ETT 101 & 101L), 11 (ETT 215 & 215L or ECE 114 & 164L or CS 128); Draft 51A (MFE 126 & 126L); Chem 1A (Chem 121 & 121L & 122L); Phys 2A & 2B (Phy 121 & 121L & 122 & 122L & 123 & 123L); Weld 50 (ETT 234 & 234L)
  Manufacturing: (Same as Environmental above)
  Mechanical: (Same as Environmental above)

CAL POLY SAN LUIS OBISPO

- **B.S. – Industrial Technology**
  Acctg 1A (Bus 214), 1B (215); Chem 1A (Chem 110 or 111 or 124 or 127); Econ 1A or 1AH (Econ 222); ELTC 51+52 (IT 137); Phys 2A & 2B (Phys 2A & 2B)

CSU CHICO

- **B.S. – Construction Management**
  **Options:** Architectural Project Management; Construction Management

  **Option Requirements:**
  Architectural Project Management: Acctg 1A (Badm 15); Art 1 or 1H (Art 1A); Math 60 (Math 7A); Phys 2A & 2B (Phys 2A)
  (No LBCC equivalents to the following CSUC courses: Arch 14; 21A, 21B, 22A, 22B; Cdes 23; Cm 15, 91, 93, 94, 95; Econ 1)

  Construction Management: Acctg 1A (Badm 15), 1B (16); Chem 3A & 3B (Chem 27); Econ 1A (Econ 2), 1B (3); Math 60 (Math 7A); Phys 2A & 2B (Phys 2A & 2B)
  (No LBCC equivalents to the following CSUC courses: Arch 14; Cm 90, 91, 93, 94, 95; Engr 2)

- **B.S. – Manufacturing Technology**
  Acctg 1A (Acct 201); Archt 60 or 61 or 62 or Draft 51A (CEM 121); Chem 1A (Chem 111A); Phys 2A (Phys 100A), 2B (100B), Stat 1 or 1H (Math 120)
  (No LBCC equivalents to the following CSUC courses: ECE 31; Math 9; ME 25; Mfgt 23, 41, 51, 54)

CSU LONG BEACH

- **B.S. – Construction Engineering Management**
  Acctg 1A (Acct 201); Archt 60 or 61 or 62 or Draft 51A (CEM 121); Chem 1A (Chem 111A); Phys 2A (Phys 100A), 2B (100B), Stat 1 or 1H (Math 120)
  No LBCC equivalents to the following CSULB courses: CEM 101, 202, 204, 205, 205L, 220, 225, 225L, 230, 235, 235L; Engr 203

SEE NEXT PAGE FOR ADDITIONAL REQUIREMENTS
CSU Long Beach (continued)

- **B.S. – Engineering Technology**
  
  **Core Requirements:** Chem 1A (Chem 111A); Engr 35 (ET 204); Draft 51A or Tec 60 (ET 170); Phys 2A (Phys 100A), 2B (100B); Stat 1 or 1H (Math 120)
  
  (No LBCC equivalents to the following CSULB courses: Engr 203, 203L; ET 101, 202, 202L, 205, 205L)

  **Options:** Environmental Technology; Manufacturing Technology; Quality Assurance

- **Option Requirements:**
  
  Environmental Technology:
  
  No LBCC equivalents to the following CSULB courses: ET 206, 209, 210, 213

  Manufacturing Technology: Mach 50A (ET 244 & 244L), 50B (ET 264 & 264L)

  Quality Assurance: Mach 50A (ET 244 & 244L), Law 18A (Fin 220)

- **B.S. – Electronic & Computer Engineering Technology**
  
  CBIS 12 (ET 286 & 286L); Chem 1A (Chem 111A); ELTC 51 & 51L (ET 250 & 250L) 52 & 52L (ET 252 & 252L), 53 & 53L (ET 260 & 260L) 54 & 54L (ET 255 & 255L); Engr 35 (ET 204); Math 50; Phys 2A (Phys 100A), 2B (100B); Stat 1 or 1H (Math 120) Draft 51A or Tec 60 (ET 170)
  
  (No LBCC equivalents to the following CSULB courses: Engr 203, 203L; ET 101, 202, 202L, 205, 205L)

CSU SACRAMENTO

- **B.S. – Construction Management**
  
  Acctg 1A (Accy 1); Engl 1 (Engl 1A); Engr 1 (CE 9); Sp 60 (Coms 2); Phys 2A & 2B (Phys 5A & 5B); Stat 1 or 1H (Stat 1)
  
  (No LBCC equivalents to the following CSUS courses: Bio 5; CM 10, 20, 21, 22, 30, 40; Math 26A, 26B)

HUMBOLDT STATE UNIVERSITY

- **B.S. – Industrial Technology**
  
  **Core Requirements:** Math 50 (Math 115); Phys 2A (Phys 106); Stat 1 or 1H (Stat 108)
  
  (No LBCC equivalents to the following Humboldt courses: Chem 107, CIS 100; IT 110, 115, 140, 151, 171, 220, 230, 290)

  **Option:** Technology Management

  **Option Requirements:**
  
  Technology Management: Add Law 18A (BA 210)
  
  (No LBCC equivalents to the following Humboldt course: Econ 104)
SAN JOSE STATE UNIVERSITY

• B.S. – Industrial Technology

Core Requirements: Chem 1A (Chem 1A); Phys 2A (Phys 2A); SJSU course & Math 47 (Math 71) or 50 & 60 (19 & 30)
(No LBCC equivalents to the following SJSU courses: Math 8; Tech 91)

Concentrations: Manufacturing Systems; Electronics and Computer Technology

Concentration Requirements:
Manufacturing Systems: Engr 3A or Draft 51A (Tech 20)
(No LBCC equivalents to the following SJSU courses: Tech 46, 60)
Electronics and Computer Technology
(No LBCC equivalents to the following SJSU courses: Tech 60, 62, 63)